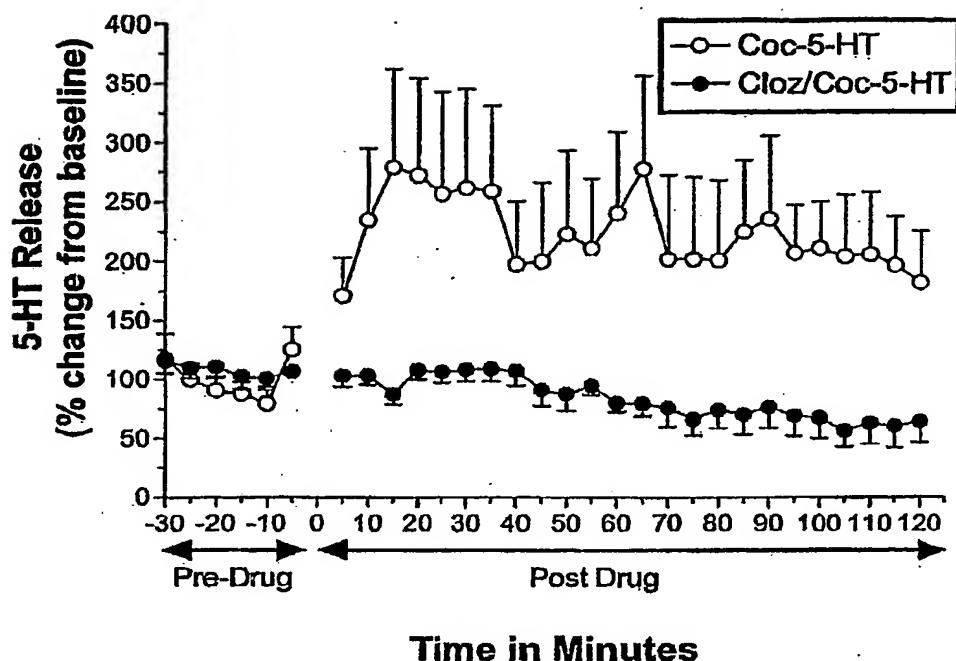
**Figure 1A**

**Figure 1B**

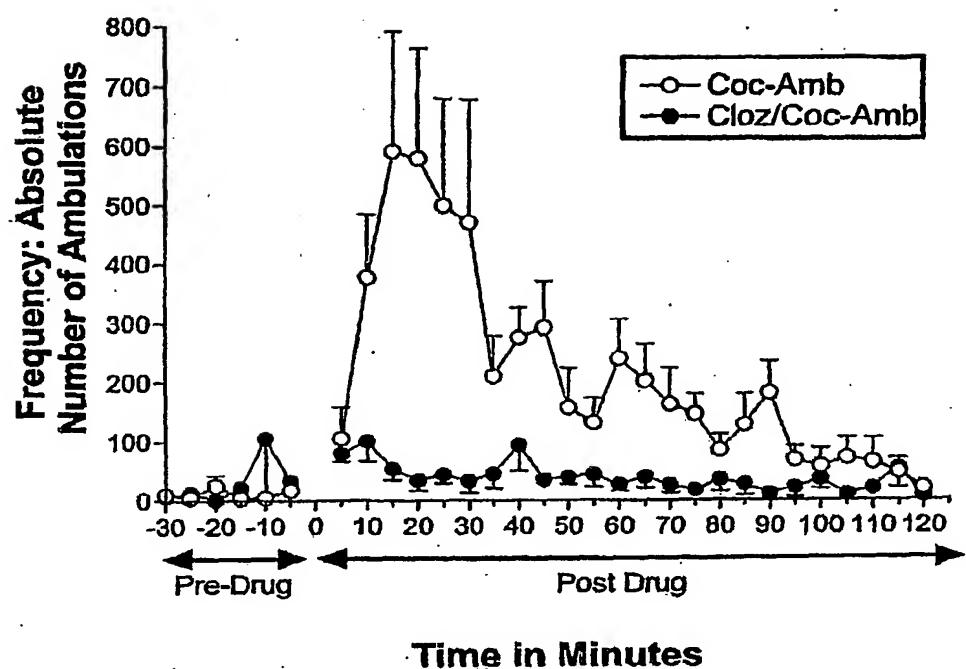
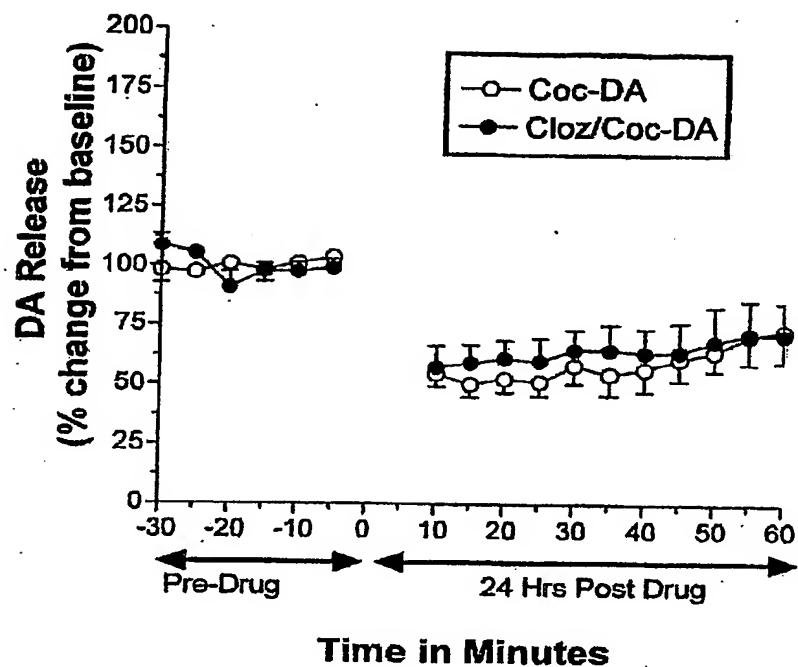
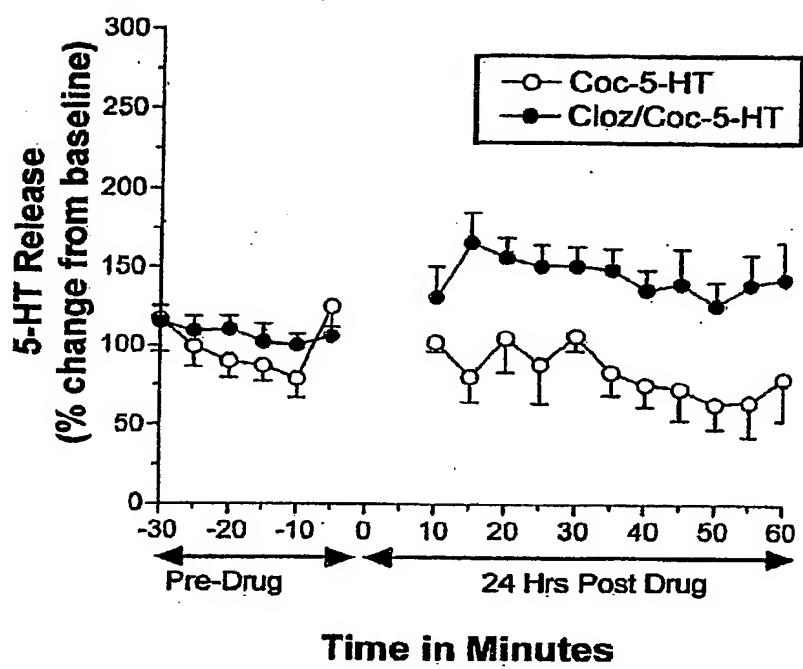
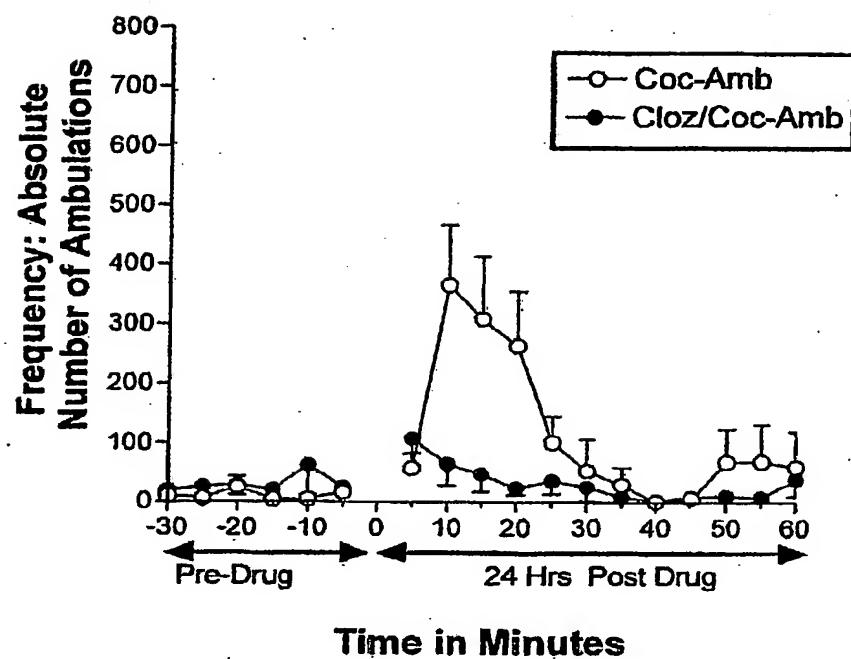


Figure 1C

**Figure 2A**

**Figure 2B**

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**Figure 2C**

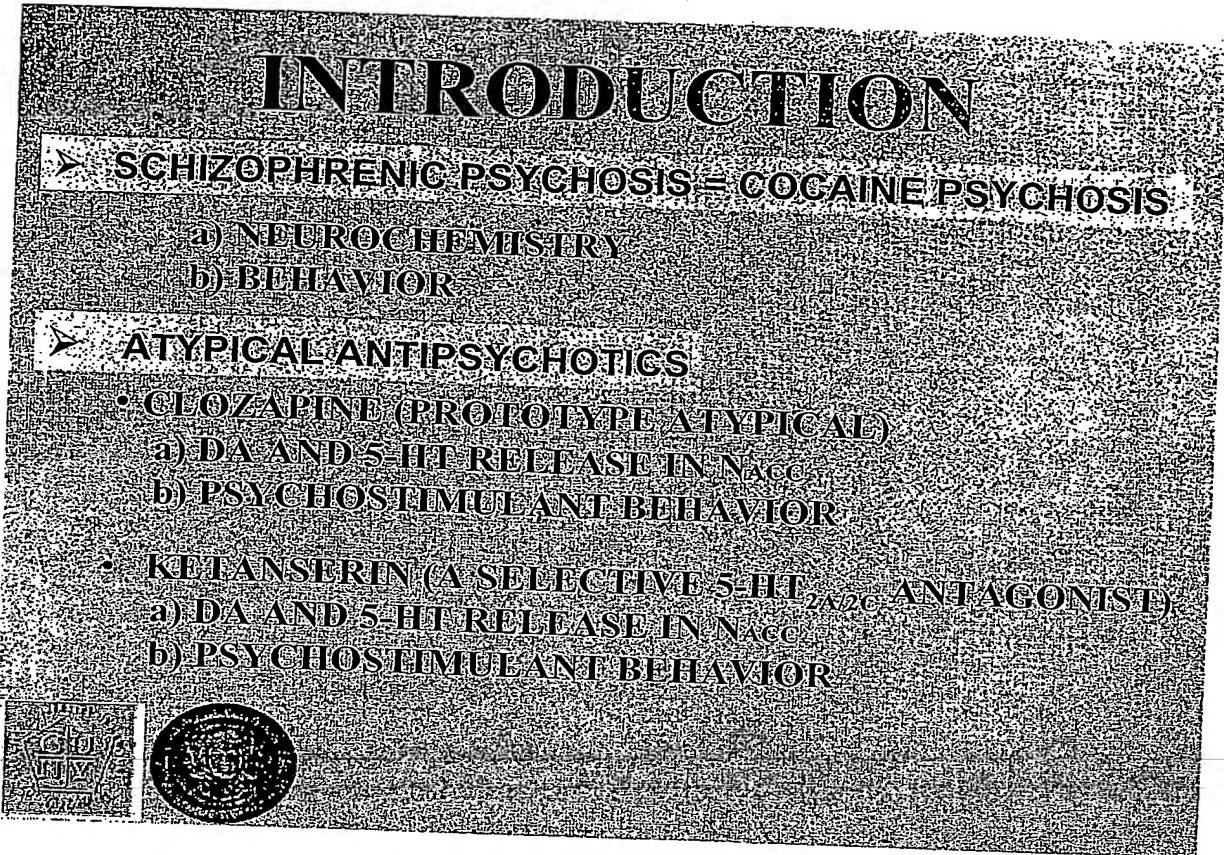


Figure 3A

METHODS

- > IN VIVO MICROVOLTMETRY
- > BRODERICK PROBE[®] folic acid microelectrodes
- > ECOCOMOTOR BEHAVIOR
- > INFRARED PHOTOBEAMS (San Diego Instruments, CA)



Figure 3B

DRUGS

- CLOZAPINE WAS INJECTED (20 MG/KG, IP, pH WAS ADJUSTED TO 2.7 with citric acid)
- KETANSERIN WAS INJECTED (3 MG/KG, SC)
- COCAINE WAS INJECTED (10 MG/KG, IP)

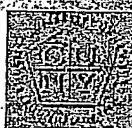


Figure 3C

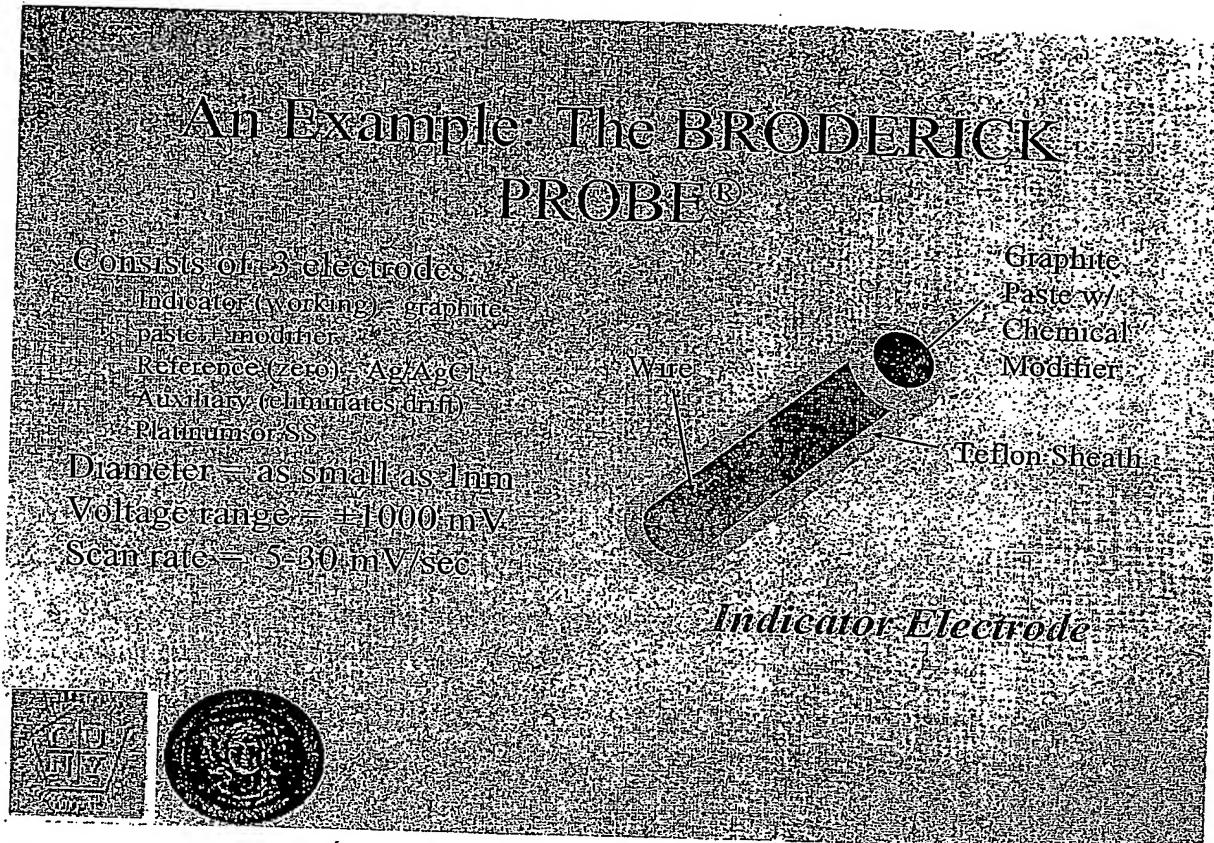


Figure 3D

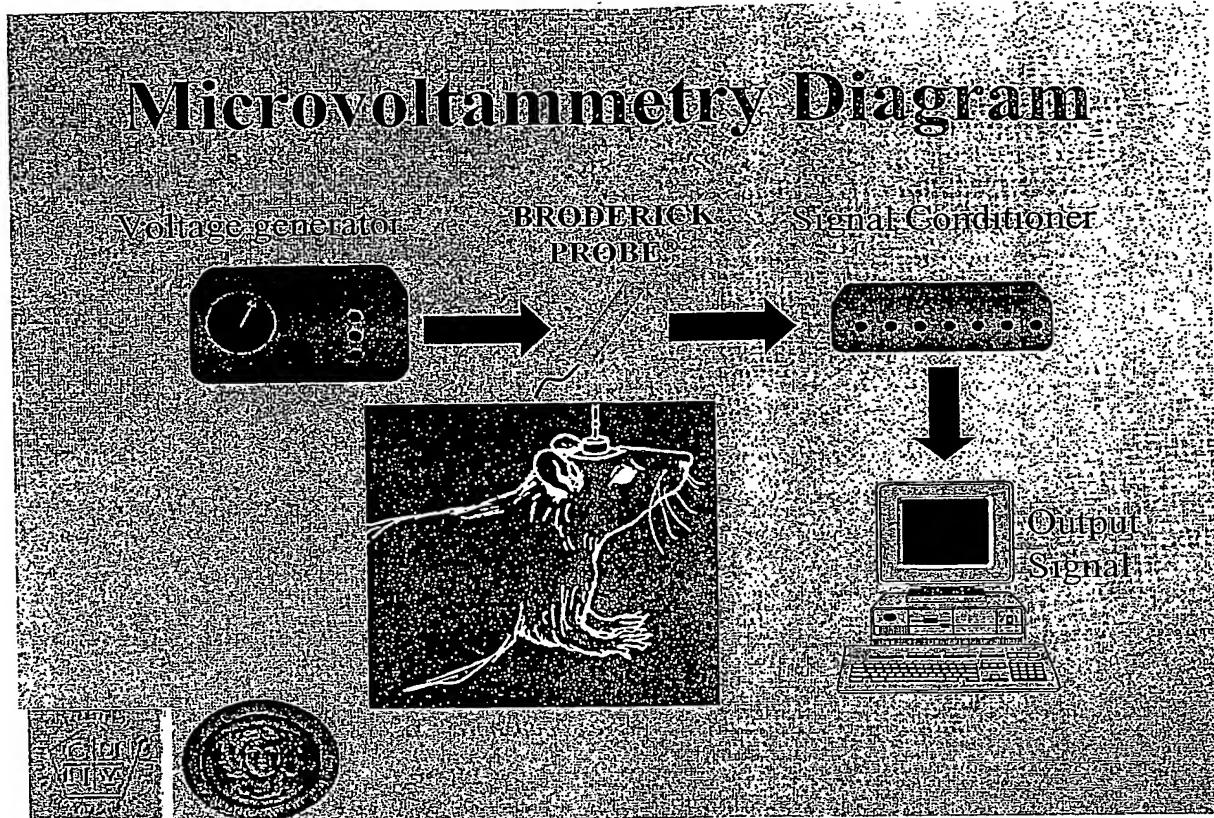


Figure 3E

Typical Voltammogram

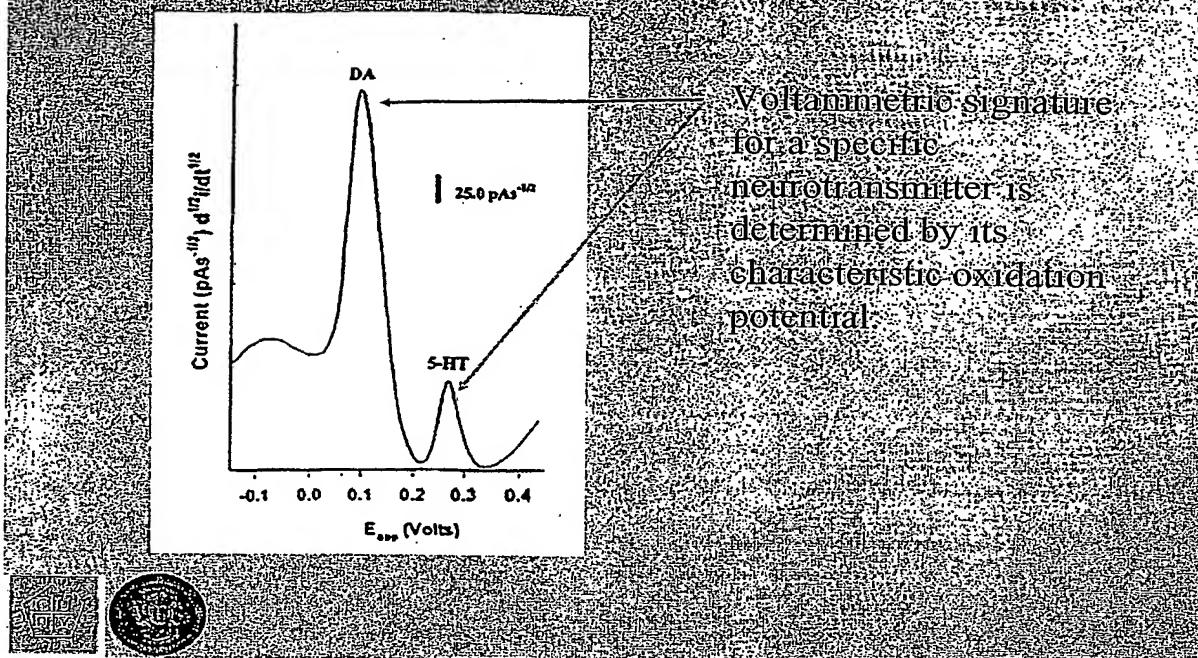


Figure 3F

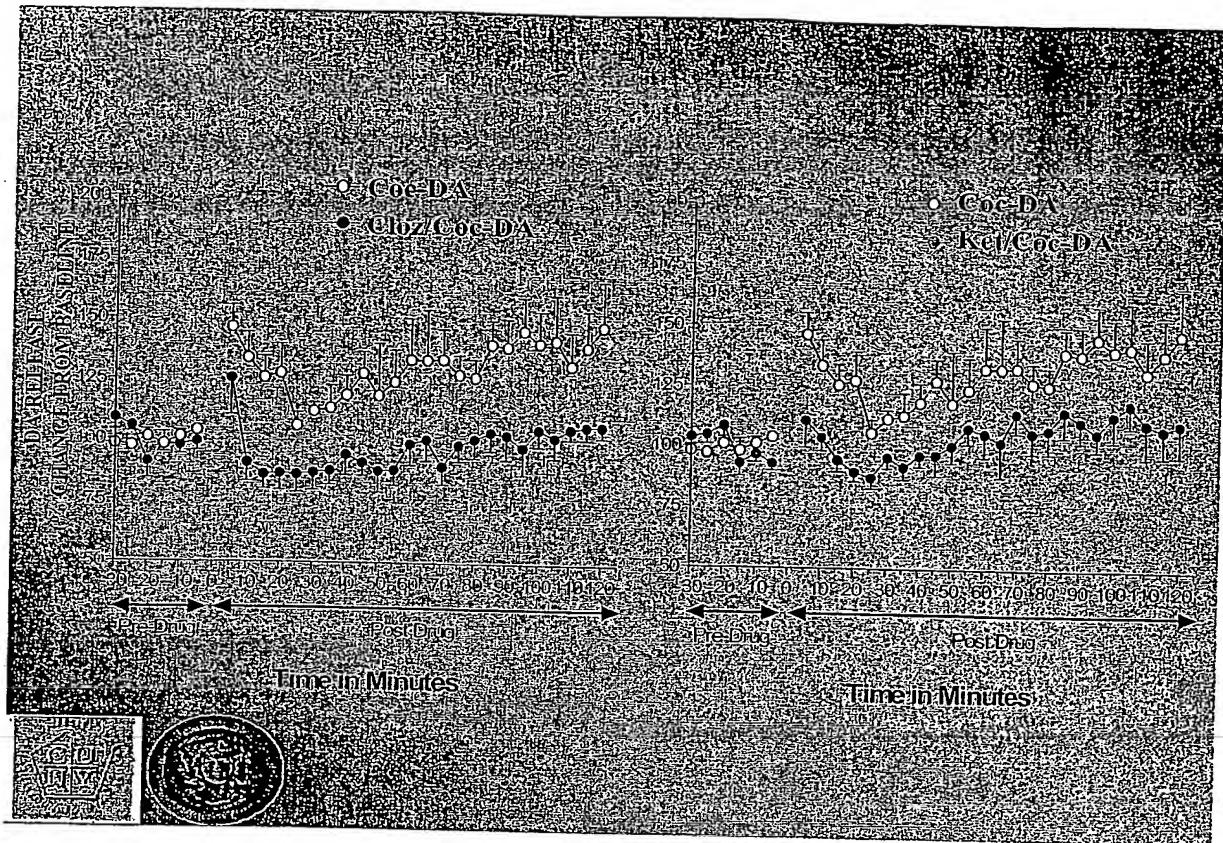


Figure 3G

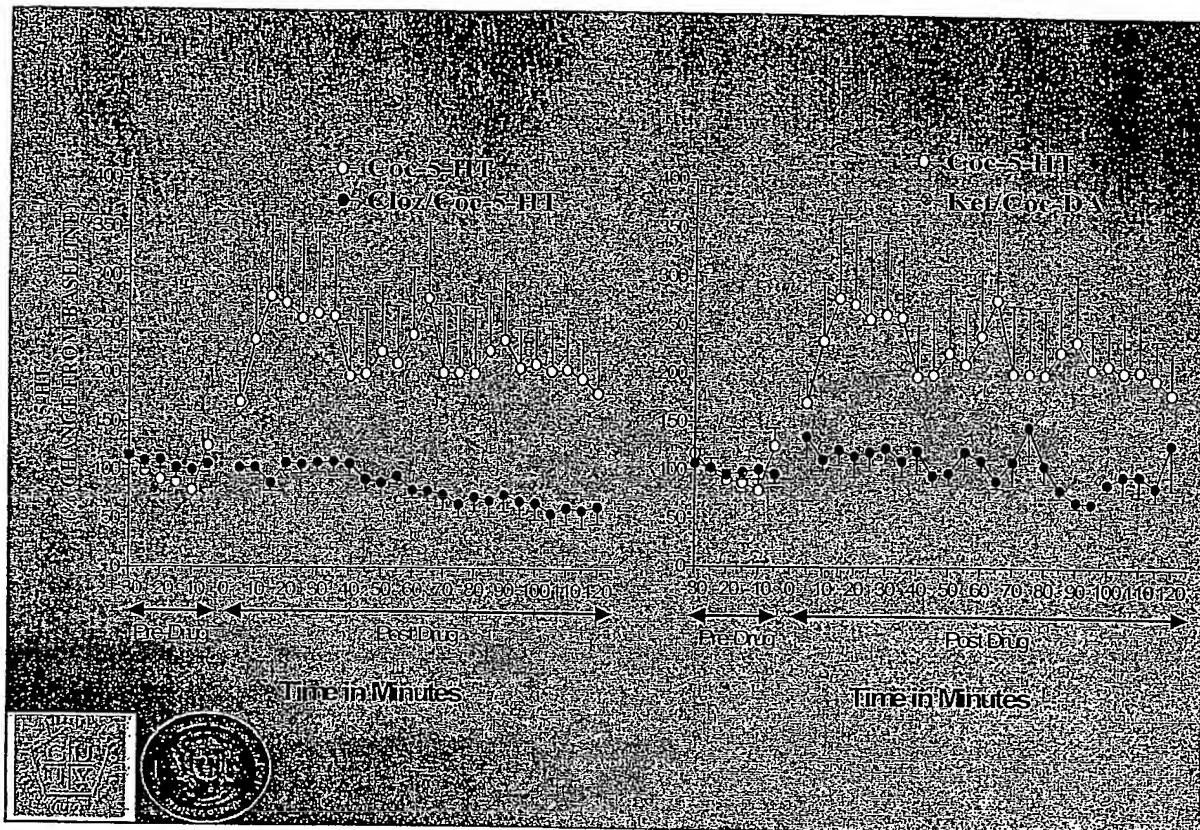


Figure 3H

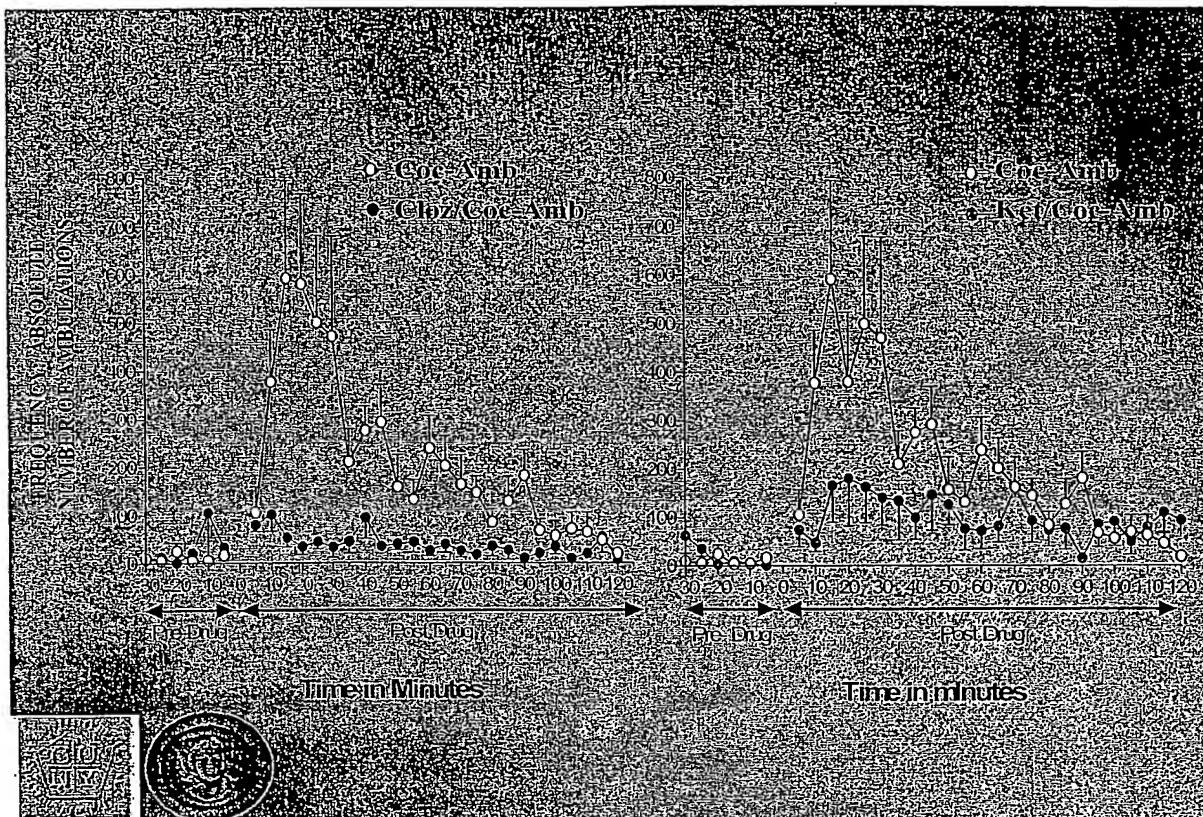
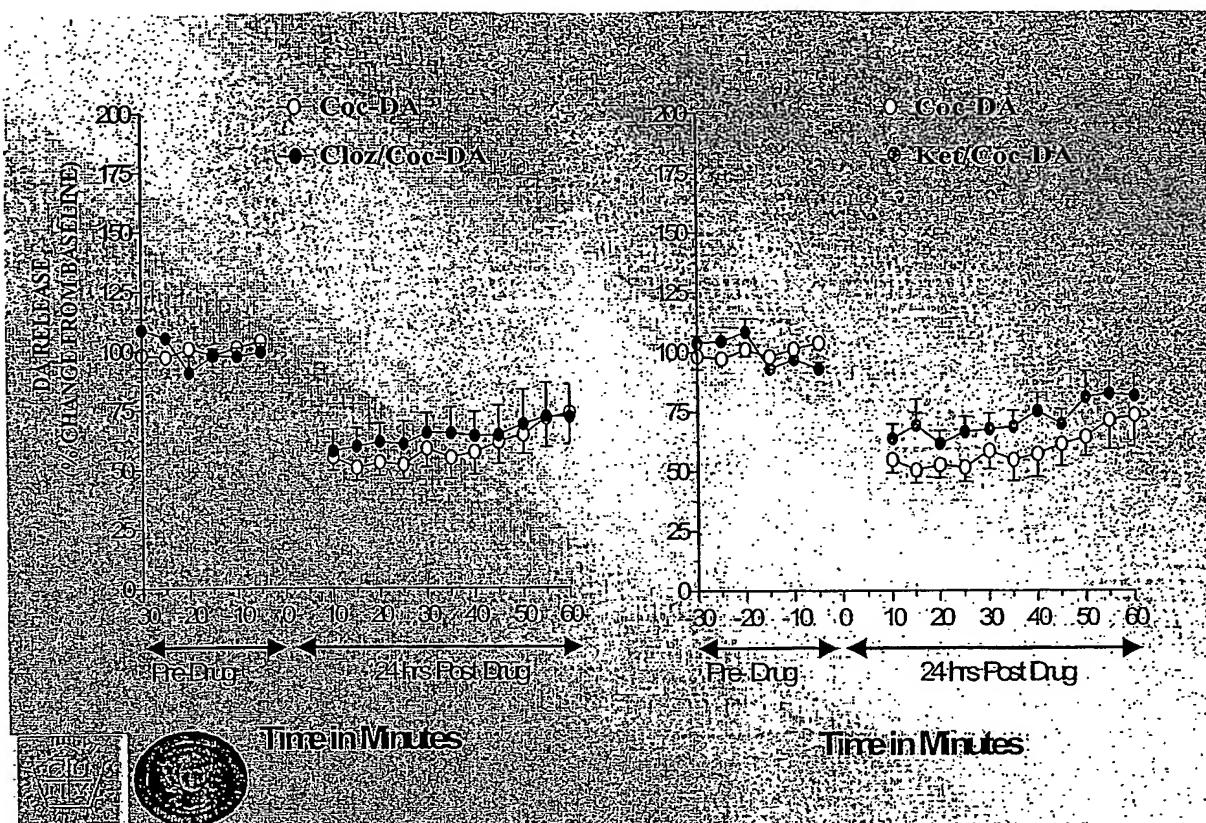


Figure 3I

**Figure 3J**

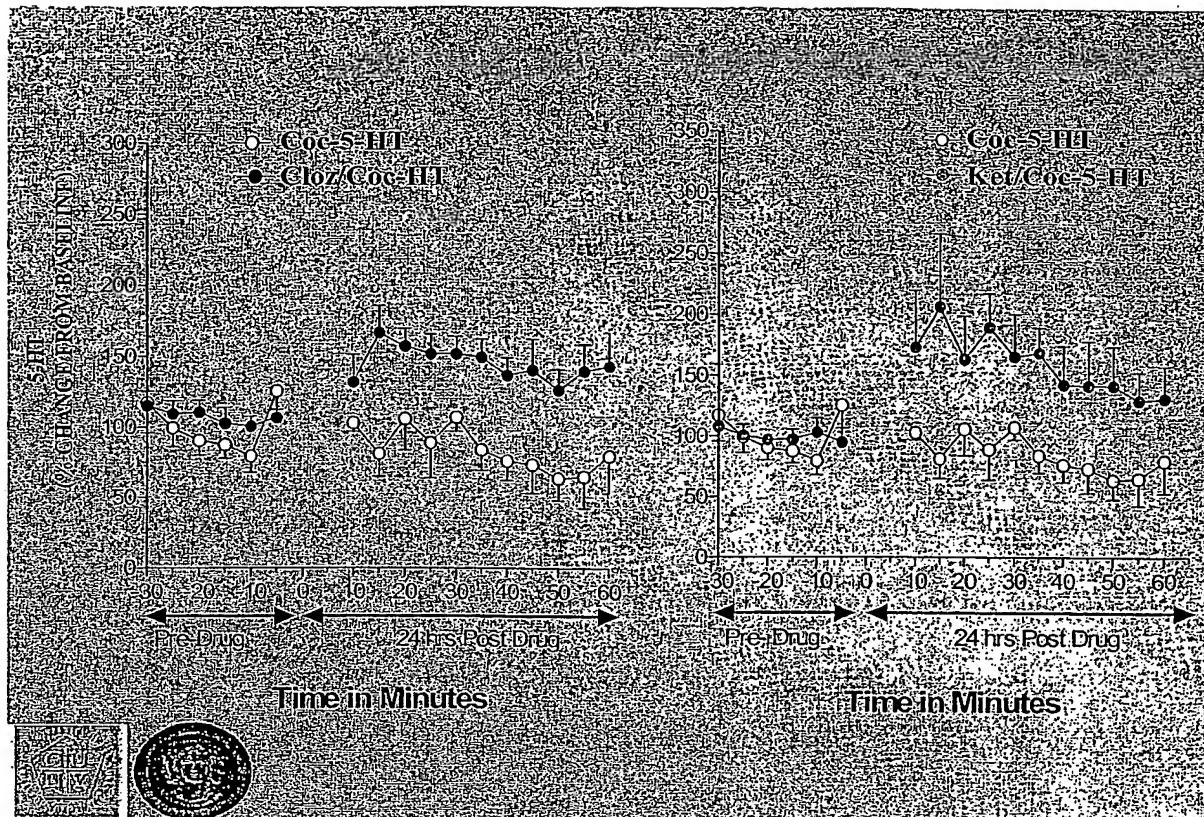
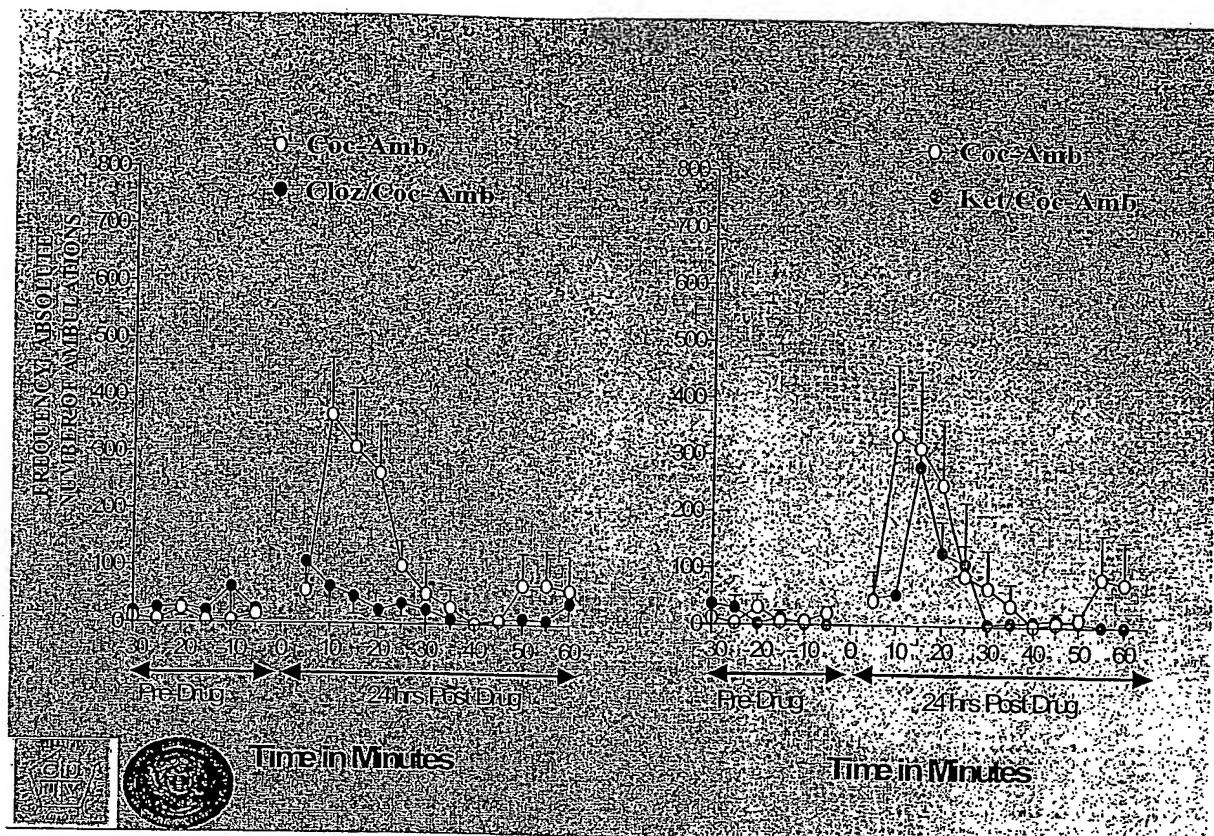


Figure 3K

**Figure 3L**

CONCLUSIONS

ACUTE STUDIES

- a) COCAINE PRODUCED INCREASES IN DA AND 5-HT RELEASE IN N_{ACC} AND INCREASED BEHAVIOR
- b) BOTH CLOZAPINE AND KETANSERIN BLOCKED COCAINE-INDUCED DA, 5-HT RELEASE IN N_{ACC} AND COCAINE-INDUCED BEHAVIOR
- c) THUS, MECHANISM OF CLOZAPINE ON COCAINE BLOCKADE SUGGESTS 5-HT_{2A/2C} MEDIATION



Figure 3M

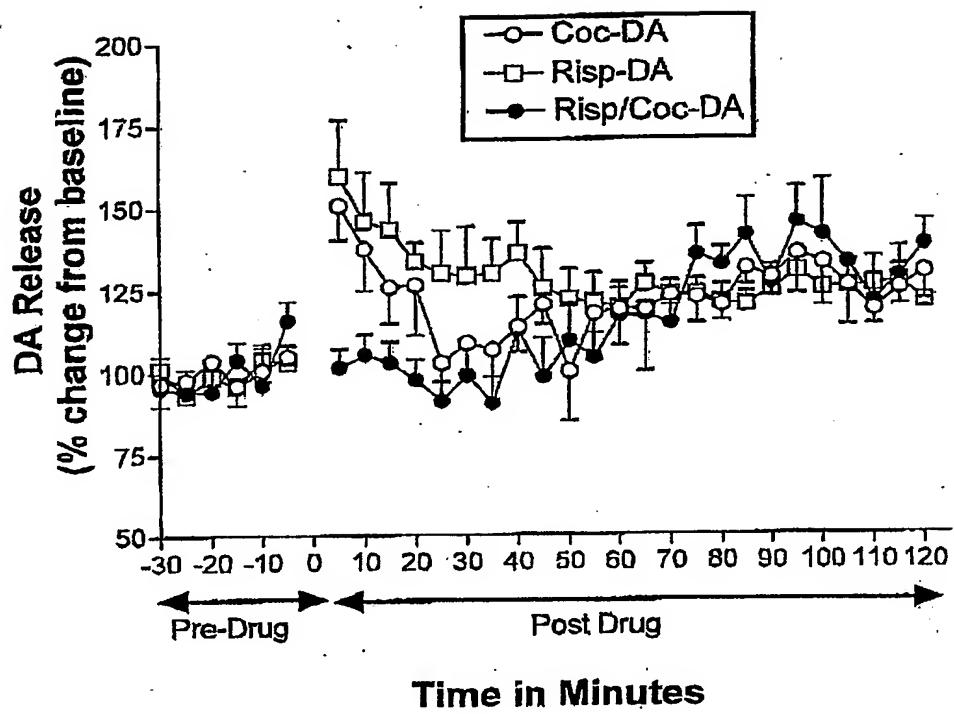
CONCLUSIONS (II)

SUBACUTE STUDIES:

- a) COCAINE PRODUCED WITHDRAWAL RESPONSES IN BIOGENIC AMINES, BUT NOT IN BEHAVIOR.
- b) BOTH CLOZAPINE AND KETANSERIN DECREASED DA AND BOTH INCREASED 5-HT RELEASE IN N_{ACC}.
- c) THUS, PRESYNAPTIC BIOGENIC AMINE (5-HT_{2A/2C}) EFFECTS WERE SEPARATED FROM POSTSYNAPTIC BEHAVIOR (DA) EFFECTS.
- d) CLOZAPINE'S SEDATIVE EFFECT MAY PLAY A ROLE IN THE SUBACUTE BEHAVIOR RESPONSE.



Figure 3N

**Figure 4A**

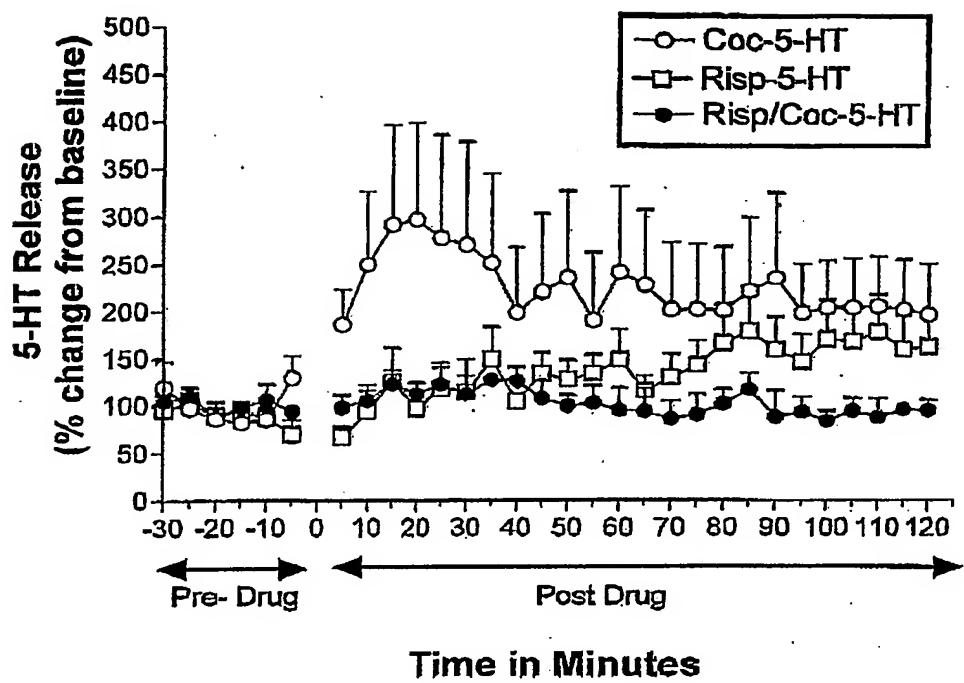
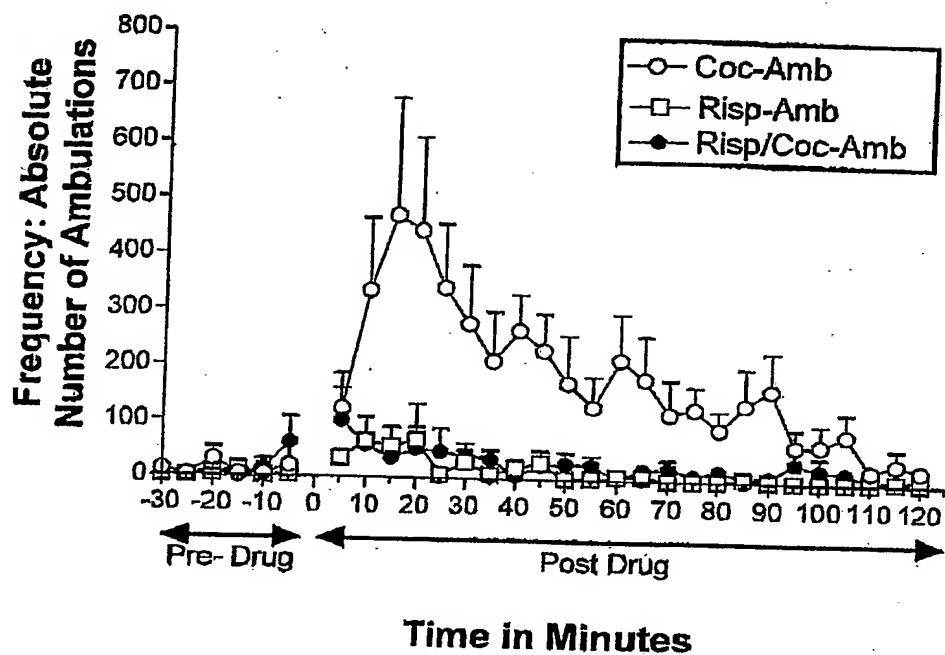


Figure 4B

**Figure 4C**

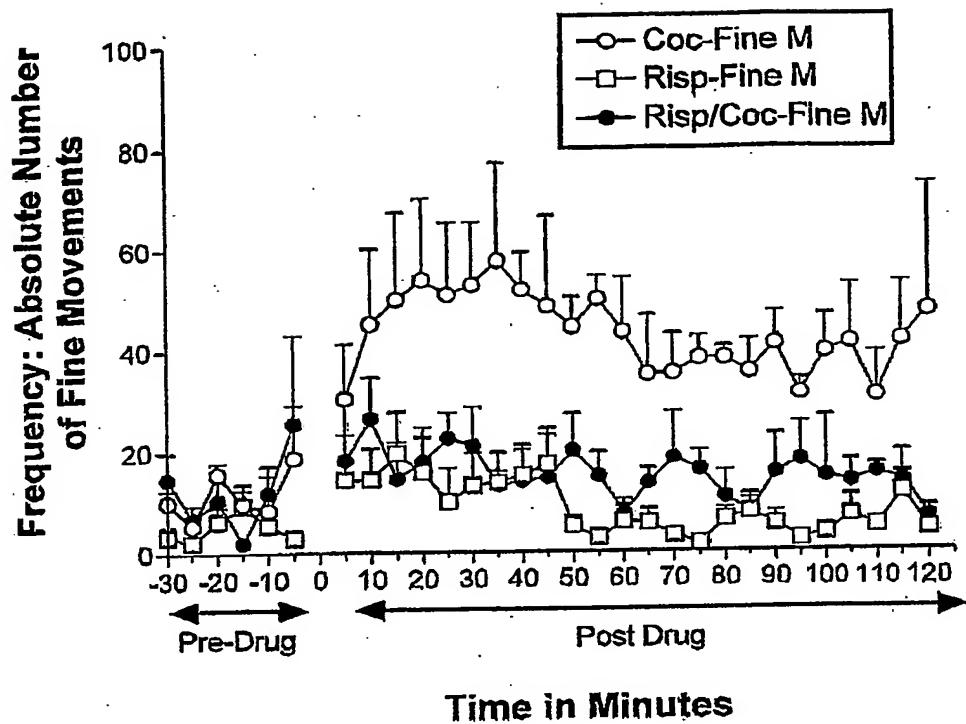
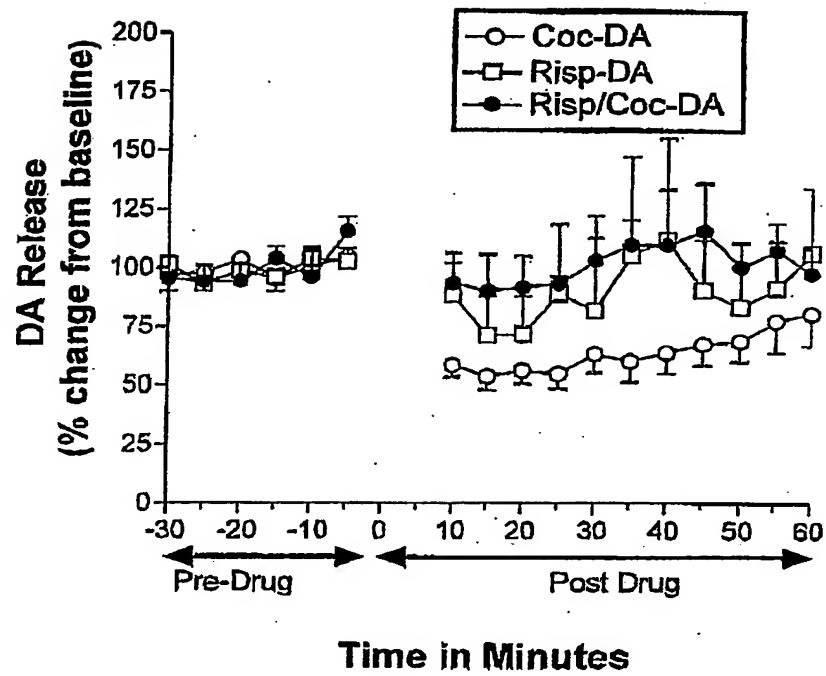
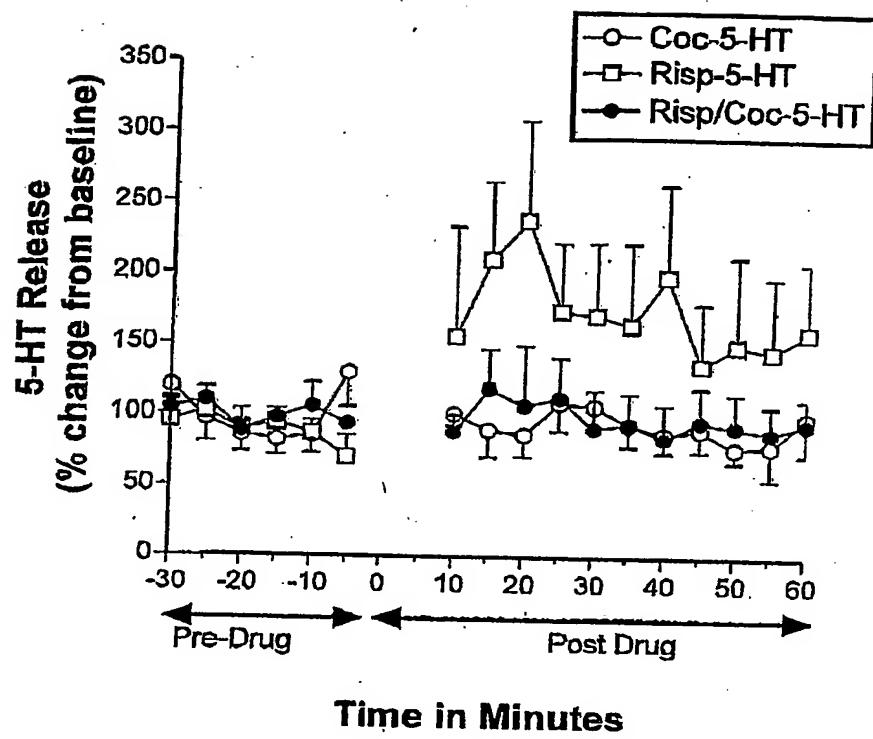


Figure 4D

**Figure 5A**

**Figure 5B**

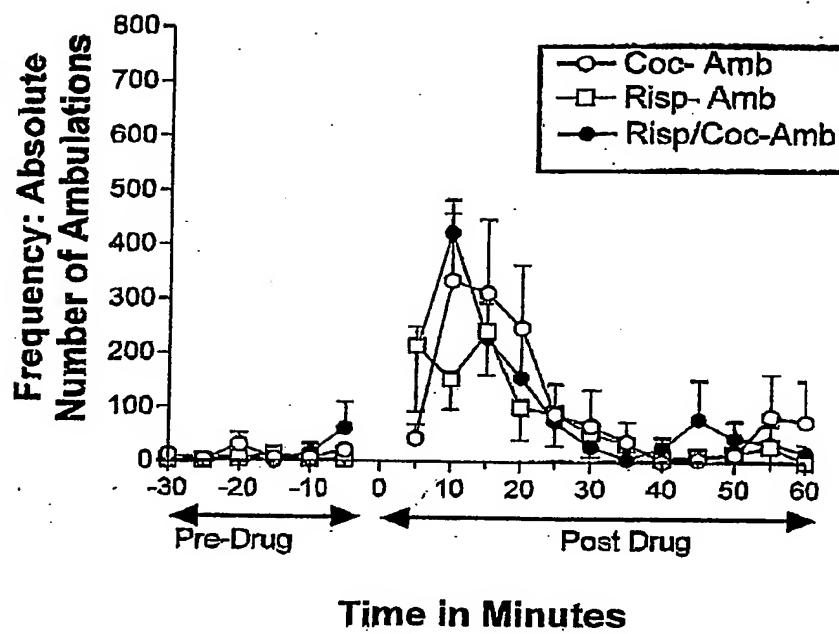


Figure 5C

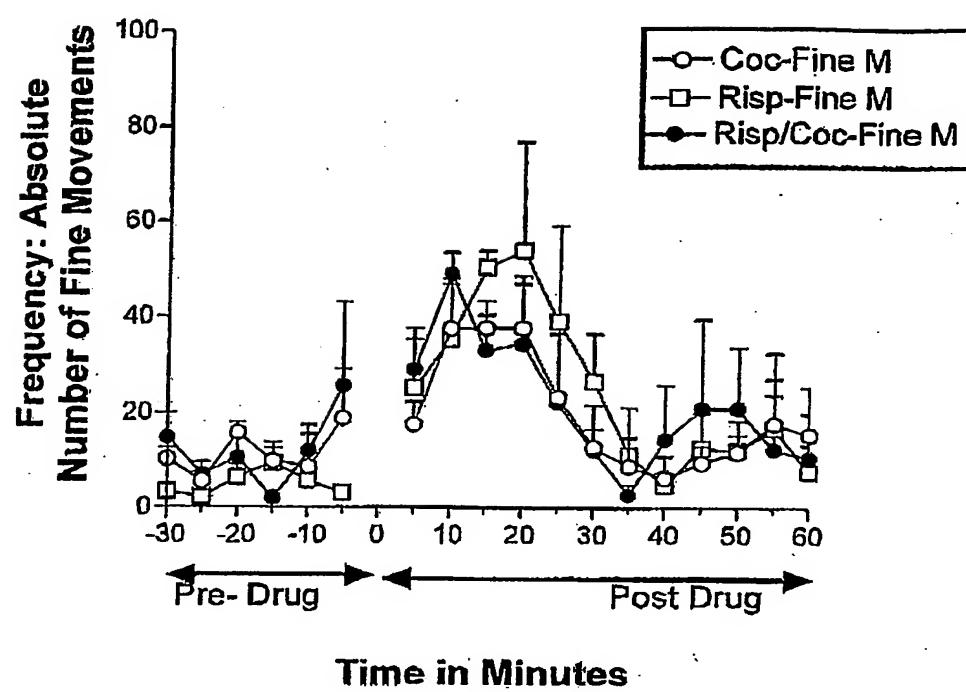


Figure 5D

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